

IN THE CLAIMS:

Please cancel Claim 4.

Please cancel Claim 5.

7. (Amended) A modified Harel statechart formed on a computer, the modified Harel statechart comprising:

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a mathematical representation of a group of states, the group of states including a first state including a plurality of ordered parallel states, the mathematical representation ensuring deterministic operation.

Please cancel Claim 8.

9. (Amended) The modified Harel statechart of claim 8 wherein the group of states are represented mathematically.

Please Cancel Claim 10.

Please Cancel Claim 11.

Please Cancel Claim 12.

Please Cancel Claim 13.

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14. (Amended) A method of providing avionic software, the method comprising:
providing a graphical representation of a state including a plurality of parallel states, the parallel states being ordered with respect to each other, the parallel states being ordered so that only one of the parallel states is active in response to a particular event; and

applying the mathematical representation to an execution engine to create the avionics software.